

ABSTRACT OF THE INVENTION

A dual-band FR4 chip antenna is disclosed. The present invention forms a
5 meandering radiating metal line on a low-cost FR4 chip base, thereby achieving a dual-
band operation. The present invention comprises: an FR4 chip base made of an FR4
material; a meandering radiating metal line; and a connecting point, wherein the
meandering radiating metal line is formed on at least two surfaces of the FR4 chip base,
and the connecting point is used for connecting the meandering radiating metal line to
10 a signal transmission line. The present invention can cover two ISM (Industrial-
Scientific-Medical) bands, such as those around 2450 MHz and 5800 MHz. The FR4
chip antenna in the present invention is not only easy to be integrated with microwave
circuits, but also sturdy and cheap, and is further suitable for using the surface-
mounting technology (SMT) to perform a mass production. In addition, the present
15 invention has two separate wide bandwidths, and is suitable for dual-band operation.
Therefore, the present invention has considerably high industrial application value.